



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 149925

TO: Nita M Minnifield
Location: REM-3C01&3C18
Art Unit: 1645
Wednesday, April 06, 2005

Case Serial Number: 09/390846

From: Deirdre Arnold
Location: Biotech-Chem Library
REM 1A64
Phone: 571-272-2532

Deirdre.Arnold@uspto.gov

Search Notes

RUSH

Please feel free to contact me if you have any questions or would like to amend the search.

Thank you for using STIC services.

Regards,
Deirdre Arnold



From: Chan, Christina
Sent: Tuesday, April 05, 2005 12:19 PM
To: Minnifield, Nita; STIC-Biotech/ChemLib
Subject: RE: interference sequence search

Please rush. Thanks Chris

Chris Chan

TC 1600 New Hire Training Coordinator and SPE 1644
(571)-272-0841
Remsen, 3E89

-----Original Message-----

From: Minnifield, Nita
Sent: Tuesday, April 05, 2005 11:51 AM
To: Chan, Christina
Subject: interference sequence search

CRFE

Christina, please approve, 2 month amdt.

STIC

09/390846

Please do an interference sequence search on SEQ ID NO: 2 of the above application.

Please provide a paper copy of the results.

Thanks,
Minnifield
71976
Art Unit 1645
Office REM-3C01

STAFF USE ONLY

Searcher: Arnold
Searcher Phone: 2- 2532
Date Searcher Picked up: 4/15/05
Date Completed: 4/16/05
Searcher Prep/Rev. Time: 27
Online Time: 27

Type of Search

NA#: 1 AA#: 1
Interference: SPDI
S/L: Oligomer
Encode/Transl: Text
Structure#: Text
Inventor: Litigation

Vendors and cost where applicable

STN:
DIALOG:
QUESTEL/ORBIT:
LEXIS/NEXIS:
SEQUENCE SYSTEM:
WWW/Internet:
Other(Specify):

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 5, 2005, 21:34:56 ; Search time 43 Seconds
(without alignments)
572.888 Million cell updates/sec

Title: US-09-390-846-2

Perfect score: 1688
Sequence: 1 MAVPEKNTKPKIMVSGMT.....GSIDEVXKQKAIADLASK 330

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database:

Issued Patents AA: *
1: /cgn2_6/prodata/1/iaa/5A_COMB.pep.*
2: /cgn2_6/prodata/1/iaa/5B_COMB.pep.*
3: /cgn2_6/prodata/1/iaa/6A_COMB.pep.*
4: /cgn2_6/prodata/1/iaa/6B_COMB.pep.*
5: /cgn2_6/prodata/1/iaa/PCITUS_COMB.pep.*
6: /cgn2_6/prodata/1/iaa/bckfile1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1688	100.0	330	3	US-08-676-882-2
2	828	49.1	315	5	PCT-USA-03796-2
3	706	41.8	329	1	US-08-270-0138-2
4	706	41.8	329	1	US-08-838-418-2
5	694	41.1	325	4	US-09-902-540-13486
6	641	38.0	324	4	US-09-134-001C-5533
7	464	27.5	324	4	US-09-107-532A-6486
8	426	25.2	318	4	US-09-134-000C-4417
9	412	24.4	317	1	US-08-748-068-3
10	412	24.4	317	1	US-08-748-068-3
11	406	24.1	354	4	US-09-949-016-8002
12	405	24.0	351	4	US-09-949-016-11252
13	405	24.0	351	4	US-09-949-016-11253
14	401.5	23.8	322	4	US-09-710-279-1412
15	401.5	23.8	322	4	US-09-710-279-1412
16	401.5	23.8	322	4	US-09-710-279-1412
17	395.5	23.4	307	4	US-09-107-532A-4274
18	391	22.2	333	2	US-08-869-506-2
19	391	22.2	333	2	US-09-128-967-2
20	390	22.1	333	2	US-08-869-506-3
21	390	22.1	333	2	US-09-128-967-3
22	389	22.0	331	4	US-09-711-681-4
23	389	22.0	331	4	US-10-274-266-4
24	388	22.0	331	4	US-09-107-433-4752
25	388	22.0	331	4	US-09-583-110-4591
26	377.5	22.4	327	1	US-08-748-068-2
27	371	22.0	381	4	US-09-711-681-2

28	371	22.0	381	4	US-10-274-266-2	Sequence 2, Appli
29	363	21.5	320	3	US-09-535-381-2	Sequence 2, Appli
30	338	20.0	337	4	US-09-489-039A-9794	Sequence 7194, Ap
31	285.5	16.9	205	4	US-09-949-016-9136	Sequence 9136, Ap
32	277	16.4	339	4	US-09-543-681A-5827	Sequence 5827, Ap
33	273.5	16.2	304	4	US-09-634-238-238	Sequence 238, App
34	246.5	14.6	338	3	US-08-922-957-3	Sequence 3, Appli
35	240	14.2	338	3	US-08-922-957-1	Sequence 1, Appli
36	236.5	14.0	358	4	US-09-248-796A-17253	Sequence 17253, A
37	231.5	13.7	258	3	US-08-922-957-4	Sequence 4, Appli
38	225.5	13.4	262	4	US-09-949-016-9135	Sequence 9135, Ap
39	225.5	13.4	262	4	US-09-949-016-9135	Sequence 9135, Ap
40	224	13.3	333	4	US-09-248-796A-17254	Sequence 17254, A
41	217	12.9	343	4	US-09-248-796A-17252	Sequence 17252, A
42	212.5	12.6	322	4	US-09-565-501A-112	Sequence 112, App
43	212.5	12.6	322	4	US-09-539-206A-112	Sequence 112, App
44	212.5	12.6	322	4	US-09-874-923-112	Sequence 112, App
45	207.5	12.3	298	4	US-09-489-039A-13636	Sequence 13636, A

ALIGNMENTS

```
RESULT 1
US-08-676-882-2
; Sequence 2, Application US/08676882
; Patent No. 6100241
; GENERAL INFORMATION:
; APPLICANT: Kok, Jacobus Johannes
; APPLICANT: van den Boogaart, Paul
; APPLICANT: Vermeulen, Arnoldus Nicolaas
; TITLE OF INVENTION: Coccidiosis poultry vaccine
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESS: Akzo No. 6100241el Patent Department
; STREET: 1300 Piccard Drive, Suite 206
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/676, 882
; FILING DATE: 03-JUL-1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Gornley, Mary E.
; REGISTRATION NUMBER: 34,409
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 977-0847
; TELEFAX: (301) 258-5200
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 330 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-676-882-2

Query Match 100.0%; Score 1688; DB 3; Length 330;
Best Local Similarity 100.0%; Pred. No. 1.3e-176;
Matches 330; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 MAVPEKNTKPKIMVSGMTGCTAFLCSRLGLDVLFLPVPMPMPGKAMDISHNSV 60
Db 1 MAVPEKNTKPKIMVSGMTGCTAFLCSRLGLDVLFLPVPMPMPGKAMDISHNSV 60
Oy 61 DTGTTVGSNSYECLKAGDVAIVITAGITKIPGSKDKEMSRMDLLPVNIKIRREVGAIKS 120
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on:

April 5, 2005, 21:36:16 ; Search time 54 Seconds
(without alignments)

2026.401 Million cell updates/sec

Title: US-09-390-846-2
Perfect score: 1688
Sequence: 1 MAVPEKNTPRKIAMVSGMI.....GSIDEVKEKQIALDASK 330

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 1413372 seqs, 331592847 residues

Total number of hits satisfying chosen parameters: 1413372

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database:

1: /cgnt_6/prodata/2/pubpaa/US07_PUBCOMB.pep.*
2: /cgnt_6/prodata/2/pubpaa/PCT_NEW_PUB.pep.*
3: /cgnt_6/prodata/2/pubpaa/US06_NEW_PUB.pep.*
4: /cgnt_6/prodata/2/pubpaa/US06_PUBCOMB.pep.*
5: /cgnt_6/prodata/2/pubpaa/US07_PUBCOMB.pep.*
6: /cgnt_6/prodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgnt_6/prodata/2/pubpaa/US08_NEW_PUB.pep.*
8: /cgnt_6/prodata/2/pubpaa/US08_PUBCOMB.pep.*
9: /cgnt_6/prodata/2/pubpaa/US09_PUBCOMB.pep.*
10: /cgnt_6/prodata/2/pubpaa/US09_PUBCOMB.pep.*
11: /cgnt_6/prodata/2/pubpaa/US09_PUBCOMB.pep.*
12: /cgnt_6/prodata/2/pubpaa/US09_PUBCOMB.pep.*
13: /cgnt_6/prodata/2/pubpaa/US10_NEW_PUB.pep.*
14: /cgnt_6/prodata/2/pubpaa/US10_PUBCOMB.pep.*
15: /cgnt_6/prodata/2/pubpaa/US10_PUBCOMB.pep.*
16: /cgnt_6/prodata/2/pubpaa/US10_PUBCOMB.pep.*
17: /cgnt_6/prodata/2/pubpaa/US10_PUBCOMB.pep.*
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19: /cgnt_6/prodata/2/pubpaa/US60_NEW_PUB.pep.*
20: /cgnt_6/prodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	880.5	52.2	320	US-10-369-493-17838	Sequence 17838, A
2	873.5	51.7	319	US-10-369-493-11441	Sequence 11441, A
3	873.5	51.7	320	US-10-369-493-14489	Sequence 14489, A
4	873.5	51.7	320	US-10-369-493-14489	Sequence 14489, A
5	862.5	51.1	311	US-10-369-493-14874	Sequence 14874, A
6	862.5	51.1	311	US-10-369-493-12078	Sequence 12078, A
7	850.5	50.4	320	US-10-369-493-12060	Sequence 12060, A
8	848.5	50.3	320	US-10-369-493-17079	Sequence 17079, A
9	847.5	50.2	320	US-10-369-493-8013	Sequence 8013, A
10	740	43.8	312	US-10-369-493-10523	Sequence 10523, A
11	709	42.0	314	US-10-369-493-22337	Sequence 22337, A
12	697	41.3	312	US-10-369-493-17395	Sequence 17395, A
13	689	40.8	285	US-10-369-493-16518	Sequence 16518, A
			15	US-10-369-493-19127	Sequence 19127, A

14	672	39.8	309	15	US-10-369-493-9045	Sequence 9045, Ap
15	669.5	39.7	319	15	US-10-369-493-13585	Sequence 13585, A
16	652.5	38.7	304	15	US-10-369-493-10401	Sequence 10401, A
17	649.5	38.5	325	15	US-10-369-493-18220	Sequence 18220, A
18	635	37.6	304	15	US-10-369-493-11172	Sequence 11172, A
19	635	37.6	317	15	US-10-369-493-19850	Sequence 19850, A
20	634	37.6	324	15	US-10-369-493-28822	Sequence 28822, Ap
21	626.5	37.2	299	15	US-10-369-493-10967	Sequence 10967, A
22	626.5	37.1	305	15	US-10-369-493-18858	Sequence 18858, A
23	625.5	37.1	309	15	US-10-369-493-12856	Sequence 12856, A
24	605.5	35.9	335	15	US-10-369-493-14336	Sequence 14336, A
25	560.5	33.7	334	15	US-10-369-493-18330	Sequence 18330, A
26	529	31.3	197	15	US-10-369-493-16679	Sequence 16679, A
27	529	31.3	312	15	US-10-369-493-23073	Sequence 23073, A
28	478	28.3	312	15	US-10-369-493-16703	Sequence 16703, A
29	462	27.3	321	15	US-10-369-493-3069	Sequence 3069, A
30	460	27.0	318	15	US-10-369-493-16478	Sequence 16478, A
31	458	27.1	312	15	US-10-369-493-16478	Sequence 16478, A
32	455	26.0	312	15	US-10-369-493-16478	Sequence 16478, A
33	439.5	25.8	319	9	US-09-971-361-3	Sequence 9, Appl1
34	439	25.8	318	15	US-10-369-493-9022	Sequence 9022, Ap
35	436	25.2	308	15	US-10-369-493-3200	Sequence 3200, Ap
36	425	24.4	310	15	US-10-369-493-17474	Sequence 17474, A
37	422	24.2	332	15	US-10-369-493-223	Sequence 223, Appl
38	411.5	24.1	361	17	US-10-760-644-27	Sequence 27, Appl
39	408	24.1	333	9	US-10-408-765A-1736	Sequence 1736, Ap
40	408	24.1	334	16	US-10-974-228-75	Sequence 75, Appl
41	406	24.1	333	14	US-10-177-293-262	Sequence 262, Appl
42	406	24.1	334	14	US-10-177-293-262	Sequence 262, Appl
43	406	24.1	333	14	US-10-177-293-262	Sequence 262, Appl
44	406	24.1	333	14	US-10-177-293-262	Sequence 262, Appl
45	406	24.1	334	14	US-10-177-293-262	Sequence 262, Appl

ALIGNMENTS

RESULT 1
US-10-369-493-17838
Sequence 17838, Application US/10369493
Publication No. US20030233675A1
GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
FILE REFERENCE: 38-10(52052)B
CURRENT FILING DATE: 2003-02-28
PRIORITY FILING DATE: 2002-02-21
PRIORITY FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 17838
LENGTH: 320
TYPE: PRT
ORGANISM: SPHINGOMONAS
US-10-369-493-17838

Query Match
Best Local Similarity 52.2%; Score 880.5; DB 15; Length 320;
Matches 173; Conservative 54; Mismatches 89; Indels 5; Gaps 1;

QY 9 RKIMVSGMIGTMAFLCSRLRGDYLFPVNMMPGKAMDISHNSVDTGTYVG 68
DB 3 RKIMVSGMIGTMAFLCSRLRGDYLFPVNMMPGKAMDISHNSVDTGTYVG 68
QY 69 SNSYCLGADVITTAITGTXPKGSKDWSRMDLPVNIKIMEVGAIAISYCNAVVI 128
DB 63 ANSYEDLAGADVCTVTAIGIPKPG-----MSRDLTKTNLGVKRAVGEIAAABDAFVI 117